

<b>U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT</b> Assistant Secretary for Housing-Federal Housing Commissioner  <b>TO: DIRECTORS, HOUSING DIVISION</b> <b>DIRECTORS, MULTIFAMILY DIVISION</b> <b>DIRECTORS, SINGLE FAMILY DIVISION</b>	<b>Series and Series Number:</b> (Supersedes issue dated September 1, 1994 ) <b>MATERIALS RELEASE NO.</b> 1150d
	<b>ISSUE DATE:</b> March 30, 1998
	<b>REVIEW DATE:</b> March 30, 2001

**SUBJECT: 1. Product** Homasote® 440 Building Panels

**2. Name and Address  
of Manufacturer** Homasote Company  
P.O. Box 7240  
West Trenton, NJ 08628-0240

Data on the nonstandard product, described herein have been reviewed by the Department of Housing and Urban Development (HUD) and determination has been made that it is considered suitable from a technical standpoint for the use indicated herein. This Release does not purport to establish a comparative quality or value rating for this product as compared to standard products normally used in the same manner.

This Materials Release cannot be used as an indication of endorsement, or approval by HUD of the described product, and any statement or representation, however made, indicating such approval or endorsement by HUD is unauthorized. See Code 18, U.S.C. 709.

Any reproduction of this Release must be in its entirety.

**USE:** Exterior Siding, Roof Sheathing, Wall Sheathing, Ceilings,  
Soffits and Subflooring

**DESCRIPTION:**

Homasote® 440 is an all wood fiber, weather-resistant, high density building board derived from the repulping of No. 1 Grade newsprint (cellulose) that has been treated to resist moisture. It is also treated for protection against termites, rot, and fungi.

Homasote® 440 has a density of approximately 26-28 lbs./ft<sup>3</sup>. Panels are manufactured in 1", 1-11/32", 1-3/8", and 2-3/8" thicknesses, and have 2, 3, and 5 ply laminations, respectively. Panels contain no asbestos and no ureaformaldehyde additives.

INSTALLATION:

A. General:

1. All installation shall be in strict accordance with the manufacturer's current application recommendations, if not in conflict with HUD Minimum Property Standards (MPS).
2. Panels shall be stored on a dry platform, a minimum 6" above grade, and under shelter.
3. Panels shall be separated and exposed to application environment for 24 hours prior to use.
4. Panels shall be preconditioned for use in accordance with manufacturer's instructions.
5. Any changes in design, composition, or application of these products shall void their suitability for the intended use outlined herein.

B. Exterior Finished Siding:

1. Table for standard sizes:

1/2" thickness;	4' x 8', 10', 12'
	8' x 6', 8', 10', 12'
	5' x 8'
5/8" thickness;	4' x 8', 10', 12'
	8' x 12'
2. For use as wall sheathing, siding, ceilings, soffits, etc., support shall be provided for all edges and throughout the panel field with framing not to exceed 16" o.c. for 1/2" thick 440, and not to exceed 24" o.c. for 5/8" thick 440 board. Panels shall be applied to framing with long panel dimension placed vertically, w/plates or blocking occurring at both top and bottom panel. Cross blocking shall be installed at all horizontal joints to provide solid blocking for nailing.
3. A 3/16" space at all panel side joints, and a 3/16" space at all panel end joints at floor and ceiling shall be provided.

4. Nails shall be placed back 1/2" from all edges. Nail panel 4 to 6" o.c. along panel edges (at perimeter), and 10 to 12" o.c. at intermediate points of support. If necessary, use additional nailing to keep panel flat.
5. For direct application of wood shingles or other siding, use ring drive nails of sufficient length to penetrate entirely through the 440 board. Follow recommendations of siding manufacturer in all respects.
6. Do not fill or tape panel joints. Joints may be covered with wood, metal or vinyl mouldings.

C. Roof Sheathing:

1. Rafter Spacing and Nail Requirements:

RAFTER SPACING AND NAIL REQUIREMENTS					
ROOF DECKING THICKNESS	RAFTER OR PURLIN SPACING FOR ALLOWABLE LIVE LOAD OF:			NAIL GALV. COMMON	PROFILE CLIP TO BAR JOIST
	40 psf	50 psf	A-Frame	Nail Size	
1"	24" o.c.	16" o.c.	32" o.c.	6d	N.A.
1 3/8"	32" o.c.	24" o.c.	48" o.c.	8d	6380
2 3/8"	48" o.c.	48" o.c.	48" o.c.	16d	6780

2. Maximum sheet size is 4' x 8'. Provide at least 1/8" clearance for expansion between adjacent sheets. Maximum rafter spacing, 24" o.c. Provide 2" x 4" blocking (minimum) between rafters, and under horizontal joints.
3. Sheets shall be installed so that edge joints of adjoining panels do not occur over the same rafter.
4. All exposed edges shall be protected by metal flashing or wood mouldings at eaves and rake edges of roof as starter strip and nailing for trim and fascia.

5. Application of built-up roofing shall be in accordance with manufacturer's specification. Roof slope shall be not less than 1/4" per foot. Built-up roofing shall be applied directly to the top surface of the roof decking using nailing method. First two courses of roofing felt shall be applied with "Square-Hed" nails or Homasote Nail #2125 with tin caps.
6. Roof decking used in exposed beam construction has a 6 mil prefinished surface of decorative white vinyl film with a fire hazard classification of Class C. Nominal size of sheet is 2' x 8'.
7. Nail panel directly to wood rafters or beams with nails as specified by manufacturer's instructions. Nail from panel center out to ends using a minimum of 5 nails per rafter. Place nails 3/4" back from edge. The use of nails or special fasteners shall be recommended by the manufacturer of the roofing material for this type board and system.

D. Floor Decking:

1. The manufacturer recommends the application of its decking with the Glue-Nail System. The manufacturer will not warrant its product performance if alternate methods are used.
2. In large platforms, provide 1/2" gap for every 50' of length for expansion and contraction. Provide 1/2" gap at all abutting masonry walls. Stagger end joints on alternate joists. Do not butt squared ends tightly. Gap 1/16" to 1/8". Tongue and groove edges may be installed tightly together. All ends shall occur only over joists.
3. Provide adequate ventilation and membrane ground cover for all installations over crawl space.
4. When resilient finish floors are used, underlayment of 3/8" thick plywood shall be provided.

WARRANTY:

Homasote Company warrants Homasote® 440 panels to be free of any defects due to faulty materials and workmanship in the manufacturing process for a period of ten (10) years from the date of installation.

The liability of Homasote Company on this warranty shall be limited to replacement of any defective panels and the cost of installation; or at the option of Homasote Company, payment in lieu thereof.

The manufacturer's warranty does not relieve the builder, in any way, of responsibility under the terms of the Builder's Warranty required by the National Housing Act, or under any provisions applicable to any other housing program.

MANUFACTURER'S RESPONSIBILITIES:

Issuance of this Materials Release (MR) commits the manufacturer to fulfill, as a minimum, the following:

1. Produce, label and certify the material, product or system in strict accordance with the terms of this MR.
2. Provide necessary corrective action in a timely manner for all cases of justified complaint, poor performance or failure reported by HUD.
3. When requested, provide the Office of Consumer and Regulatory Affairs, Manufactured Housing and Standards Division, HUD Headquarters, with a representative list of properties in which the material, product or system has been used, including complete addresses or descriptions of locations and dates of installation.
4. Inform HUD in advance of changes in production facilities, methods, design of the product, company name, ownership or mailing address.

EVALUATION:

This MR shall be valid for a period of three years from the date of initial issuance or most recent renewal or revision, whichever is later. The holder of this MR shall apply for a renewal or revision 90 days prior to the Review Date printed on this MR. Submittals for renewal or revision shall be sent to HUD Headquarters. Appropriate User Fee shall be sent to:

U.S. Department of Housing and Urban Development  
Technical Suitability of Products Fees  
P.O. Box 954199  
St. Louis, MO 63195-4199

The holder of this MR may apply for revision at any time prior to the Review Date. Minor revisions may be in the form of a supplement to the MR.

If the Department determines that a proposed renewal or supplement constitutes a revision, the appropriate User Fee for a revision will need to be submitted in accordance with Code of Federal Regulations 24 CFR 200.934, "User Fee System for the Technical Suitability of Products Program," and current User Fee Schedule.

CANCELLATION:

Failure to apply for a renewal or revision shall constitute a basis for cancellation of this MR. HUD will notify the manufacturer that the MR may be canceled when:

1. conditions under which the document was issued have changed so as to affect production of, or to compromise the integrity of the accepted materials, product, or system,
2. the manufacturer has changed its organizational form without notifying HUD, or
3. the manufacturer has not complied with responsibilities it assumed as a condition of HUD's acceptance.

However, before cancellation, HUD will give the manufacturer a written notice of the specific reasons for cancellation, and the opportunity to present views on why the MR should not be canceled. No refund of fees will be made on a canceled document.

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This Materials Release is issued solely for the captioned firm, and is not transferable to any person or successor entity.  
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